

Jesse Knight, EIT

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Objective Mechanical Design Engineer *visit www.jesseaknight.com/resume*
for skill and project details

Education Walla Walla College, College Place, Washington
2003-2006 Bachelor of Science in Engineering, Concentration: Mechanical

Projects
Robotics: Programmed a commercial 6DOF robot to match a 3D Matlab simulation of the same robot. Matlab code provides forward and inverse kinematic control with a simple GUI. Team of three.
Manufacturing: Project Lead: machine that automatically cuts 6-block puzzles with a router oversaw 3 other students and was heavily involved in all phases: concept, CAD drawing, manufacturing, assembly, sensors and pneumatics layout, and was responsible for all of the PLC wiring and programming.
Senior Project: Domestic fixtures in the shape of human hands – took project from idea to manufacturing phase including: prototypes in cast aluminum, market research, and automated production plan

Experience
2007 R&D Engineer, Wilkinson Baking Company
Design and refinement of electro-mechanical automation systems for a commercial automated bread oven. Responsible for all programming, wiring, feedback and sensor systems. Collaborating on the design and sourcing of mechanical and thermal parts. www.wilkinsonbaking.com

2005 Summer Engineering Researcher, Loma Linda University Medical Center
Orthopaedic Research including ceramic microseparation simulator studies, statistical analysis of reliability, publication preparation and conference lecture

2004-2006 Engineering Ambassador, Walla Walla College
-Visited high schools to provide information about engineering and Walla Walla College
-Constructed a catapult and demonstration for the principles of modeling, analysis and design

Director: Collegiate Advocates for Better Living (CABL), Walla Walla College
Planning and leading large events, camping trips, in charge of advertising and public speaking
Took the organization from a dormant state to a popular name on campus with every activity over-full.

Photographer, Walla Walla College
Major contributor to award winning yearbook, as well as other school publications

2003-2006 Student Missions Office Staff, Walla Walla College
-Managing project to convert paper application to online database
-Electric and human traffic layout and implementation for Food Fair: 40 booths serving food to 3000 ppl
-Planning retreats for outgoing and returning missionaries: including food, speakers, and small groups

2004 Summer Ropes Course Director/Summer Camp Counselor, Glacier View Ranch, CO
-Trained and managed five staff members, setup and maintained equipment safety
-Provided instruction and encouragement to campers to complete a week long challenge course
-Also created large brochure including all photography, design, layout, and pre-processing

2002-2003 Service Volunteer, Guyana
Developed high-school math curriculum, Designed and funded a large dock, Teacher, Dean of Boys, Construction of 5 buildings, Starting and running a farm, Adult Sabbath School teacher

Scores

	<u>GRE</u>		<u>FE</u>	<u>Undergrad GPA</u>
590 Verbal	770 Analytical	5.0 Writing	Passed	3.1

References

Don Riley – ME Professor, Walla Walla College RileDo@wwc.edu	509-527-2073	Jon Ostojic – Lead, Wilkinson Baking Company Jon@wilkinsonbaking.com	509-529-5800
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